BIONOSTICS

AUG 2 7 2001

510(k) Summary*

(a) (1) Submitter's name, address

Bionostics, Inc. 2 Craig Road Acton, MA 10720 **Contact Person**

Kathleen Storro

Director, QA & Regulatory Affairs

(978) 263-3856 x 220

Date of preparation of this summary: 27 July 2001

(2) Device trade or proprietary name:

Multi-Meter Glucose

Calibration Verification Material

Device common or usual name or classification name:

Multi Analyte Control Solution, All Types (Assayed and Unassayed)

CLASSIFICATION

PRODUCT NOMENCLATURENUMBERCLASSPANELSINGLE ANALYTE CONTROL SOLUTION862.166075 JJXICHEMISTRY

(3) Substantial Equivalence

Multi Analyte Glucose Calibration Verification Material is substantially equivalent in function, safety and efficacy to currently marketed devices produced by Bionostics. In example:

Comparison of Multi-Meter Glucose Calibration Verification Material to predicate devices for substantial equivalency

Characteristic	Predicate Devices		Modified Device
Name:	Sugar Chex Linearity for	Quality Control Solution	Multi-Meter Glucose
	One Touch	for MediSense BGM	Calibration Verification
			Material
510(k), Date:	K925479, 01/29/93	K002540, 09/18/2000	
Number of levels:	5	5	5
Analytes:	Glucose	Glucose	Glucose
Container:	plastic bottle	plastic bottle	plastic bottle
Fill volume:	2 mL	4 mL	4 mL
Color:	red	red	red
Matrix:	Stabilized human red	Buffered, aqueous	Buffered, aqueous
	blood cells with glucose	solution of D-Glucose,	solution of D-Glucose,
	in a medium with	viscosity modifier,	viscosity modifier,
	perservatives.	preservatives and other,	preservatives and other,
		non-reactive ingredients.	non-reactive ingredients.

^{*} This summary of safety and effectiveness is submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

(4) Description of the new device Multi-Meter Glucose Calibration Verification Material is a five-level, viscosity-adjusted, aqueous liquid glucose control linearity set. Multi-Meter Glucose Calibration Verification Material provides a convenient method of performing periodic QC checks for laboratories selecting to measure liquid QC material as a part of their quality assurance program. The product is packaged in plastic bottles with dropper tips for application of the solution to test strips. The control has a red color to help users see the solution while dispensing onto a test strip.

Multi-Meter Glucose Calibration Verification Material contains glucose values at the lower and upper limits of reportable range as well as three points within the range and therefore, may be used to assess the linearity and calibration, or verify performance, for each of a number of blood glucose meters listed on the package insert.

Multi-Meter Glucose Calibration Verification Material is a non-hazardous aqueous solution containing no biological materials.

- (5) Intended use of the device
 Multi-Meter Glucose Calibration Verification Material is intended to be used to
 monitor and evaluate the analytical performance of a number of popular blood
 glucose meters (BGM) as listed in the package insert..
- (6) Technological characteristics of the device.

 This material consists of viscosity-adjusted, aqueous glucose control solutions prepared in five specific glucose concentrations. The solutions have been optimized to simulate the response of whole blood on a number of blood glucose meters listed in the package insert.
- (b) (1) Summary of non-clinical tests submitted with the premarket notification for the device.

Tests were conducted to verify specific performance requirements:

- a) Accelerated aging studies on most labile analytes, together with experience with other products with similar formulations support stability claim.
- b) Test precision
- c) Correlation to reference methodology
- (b) (2) Summary of clinical tests submitted with the premarket notification for the device. N/A
- (b) (3) Conclusions drawn from the clinical and non-clinical trials.

 Comparison of technological characteristics, formulation and intended use to predicate devices listed in this summary support the claim of substantial equivalence.

DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration 2098 Gaither Road Rockville MD 20850

AUG 2 7 2001

Ms. Kathleen Storro
Director, QA and Regulatory Affairs
Bionostics, Inc.
2 Craig Road
Acton, MA 01720

Re:

K012430

Trade/Device Name: Multi-Meter Glucose Calibration Verification Material

Regulation Number: 21 CFR 862.1660

Regulatory Class: I, reserved

Product Code: JJX Dated: July 27, 2001 Received: July 31, 2001

Dear Ms. Storro:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Good Manufacturing Practice for Medical Devices: General (GMP) regulation (21 CFR Part 820) and that, through periodic GMP inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory Devices

Steven Butman

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

510(k) Number: K012430 Multi-Meter Glucose Calibration Verification Material **Device Name: Indications for Use:** Multi-Meter Glucose Calibration Verification Material assayed controls are intended for use to verify the performance of multiple blood glucose meters as indicated on the package insert at their upper and lower ends of reportable range and at three points within the range. These controls can therefore be used to assess the linearity and calibration of the test system, or to verify the test systems' performance. For In Vitro Diagnostic Use (PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED) Concurrence of CDRH, Office of Device Evaluation (ODE)

OR

Division of Clinical Laboratory Devices

(Division Sign-Off)

Prescription Use

(Per 21 CFR 801.109)

Over-The-Counter Use _____

Optional Format 1-2-96)